

PROCEEDINGS

The 5th National and International Research Conference 2022 NIRC V 2022

"Universities for Local Development Based on Sustainable Development Goals"



14 February 2022
Buriram Rajabhat University
(Online & Onsite)



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The Effect of BOPPPS Teaching Method on Learning Achievement and Dance Performance of University Students

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Abstract

This research aimed to: 1) To compare students' learning achievement before and after learning with the BOPPPS teaching method. 2) To compare students' dance performance after learning with the BOPPPS teaching method with the established 70% criterion. The samples were 30 third-year students (one class) in the department of dance studying Training Philosophy of Dance course obtained by cluster sampling method. The research instruments were lesson plans, learning achievement test and dance performance evaluation form. The statistics employed to analyze the quantitative data were percentage, mean, standard deviation and t-test (dependent). The results revealed that: The students' learning achievement after learning with the BOPPPS teaching method was higher than before. The students' dance performance after learning with the BOPPPS teaching method was higher than the established 70% criterion at significant level of 0.05.

Keywords: BOPPPS Teaching Method, Learning Achievement, Dance Performance

1. Introduction

Dance, as a unique form, has irreplaceable significance and value in the construction of socialist spiritual civilization and the promotion of human's all-round development. Dance majors usually need early professional dance training as the foundation. During the undergraduate period, they will achieve comprehensive development from three aspects namely knowledge, quality and ability training. Finally, they will achieve all-round development in dance skills, cultural literacy and creative thinking through the combination of professional skills, artistic accomplishment, the creation in class and artistic practice. (National standard for teaching quality of music and dance, 2020)

Training Philosophy of Dance, as a compulsory course of dance major, plays a crucial role in the whole process of dance learning. Training Philosophy of Dance is a course combining theory and practice. It is usually offered in the third year of university. The main teaching goal is to let students master the training system of different kinds of dance. Students are expected to achieve accurate and infectious dance performance of different types of dance with their professional ability shaped by the scientific training system. (Yangou, 2009)

BOPPPS teaching method originated from teacher skills training in Canada. It is a teaching target-oriented and student-centered teaching method. It divides the whole teaching process into six stages namely: Bridge in, Objective or Outcome, Pre-assessment, Participatory learning, Post-assessment and Summary. First, pique students' learning interest. Then inform them of the teaching goal before teaching to achieve the goal orientation. Next have a pre-test to have a clear picture of the students' knowledge reserves. Design interactive participatory teaching activities according to the results of the test. Post assessment to see the learning progress after those teaching activities. Finally comes the teaching summary, which works as the introduction of the teaching session as well. The method has a clear train of thought throughout the whole process, from the shallow to the deep, from the outside to the inside, stating from interest and ending with the summary, which is closely connected and in line with the cognitive law of people. Therefore, this method is highly promoted by many university teachers who are familiar with it and carry out applied research and practice in their own classroom teaching. (Sun Jinping, 2019)

I am a university teacher and work at a normal university in Hebei, China. The courses I teach mainly include Training Philosophy of Dance, Appreciation of Dance Works and Dance Techniques. My research questions were:1) How does students' learning achievement before and after learning with the BOPPPS teaching method? 2) How does students' dance performance after learning with the BOPPPS teaching method compare with the established 70% criterion? (Yu Miaomiao, 2011)

I hope to find scientific and systematic dance teaching system, fully tap the students' learning potential, and realize the comprehensive development of students. Based on the reasons above, we choose to study the influence of BOPPPS teaching model on improving the academic performance and dance performance of students majoring in dance.

2. Research Objectives

This research consisted of two objectives:

- 2.1 To compare students' learning achievement before and after learning with the BOPPPS teaching method.
- 2.2 To compare students' dance performance after learning with the BOPPPS teaching method with the established 70% criterion.



3. Research Methodology

3.1 Samples

The population of this study were 180 students of third-year (six classes) in the department of dance, Conservatory of Music, Lang fang Normal University, Hebei Province, China. The samples were 30 students (one class), which selected randomly through probability sampling techniques by the clusters random sampling method.

3.2 Research Instruments

The research instruments were lesson plans, learning achievement test and dance performance evaluation form. The statistics used to analyze the quantitative data were percentage, mean, standard deviation, t-test (dependent) analysis.

For example: one lesson plan using BOPPPS teaching method.

Table 1

Lesson plan : Training philosophy of dance

Instructional Topic: Flexibility training in dance

Class Level: The third grade

Number: 30 students
Times: 120 minutes

limes : 12	20 minutes		
	1. Students understand the concepts of flexibility, classification of flexibility		
Objectives	and significance of flexibility training.		
	2. Students know the means and methods of dance flexibility training		
	through actual movement exercises.		
	3. Students understand the mind map about the basic principles and main		
	characteristics of dance flexibility training.		
	4. Students know how to design a preliminary plan suitable for children's		
	flexibility training.		
Cartant	Concepts of flexibility, classification of flexibility and significance of		
Content	flexibility training, means of flexibility, method of flexibility.		
Media and	Media: Power point presentations Instructional video		
Learning Text Books: Training Philosophy of Dance and Anatomy of Dan			
Resources Auxiliary equipment: mat, handle bar, tension belt			
	Instructional Strategies (teaching methods)		
n.l.	Play the video of Chinese classical dance technique, and attract the		
Bridge-in	students' attention by appreciating the difficult technique movements. Let		

	the students think about how to realize the exquisite technique. This leads to the learning objectives and tasks of this course.
Outcome	The teacher introduces the teaching objectives of this class to the students: 1) Students can explain concepts of flexibility, classification of flexibility and significance of flexibility training. 2) Students can show the means and methods of dance flexibility training through actual movement exercises. 3) Students can present the mind map about the basic principles and main characteristics of dance flexibility training. 4) Students can design a preliminary plan suitable for children's flexibility training.
Pre -assessment	Student have the pre-test knowledge of this lesson plan. Then, through sharing their own experience in the process of flexibility training, students can understand how much they have mastered the knowledge and methods of flexibility training.
Participatory Learning	1) Teacher's explanation: Firstly, teachers will explain and demonstrate the characteristics, principles and requirements of flexibility training with PPT. 2) Students' participation: Students are divided into six groups to practice flexible movements, including three means and two methods. The three means are: using external tools, relying on external forces, using their own power. The two methods are static tensile method, dynamic tensile method. 3) Interactive session: After the movement exercise, each group will perform the movement demonstration. Each group recommends one student to be the speaker, the speaker will use a mind map for a presentation. The other students demonstrate actions. While students are sharing, teachers can supplement their knowledge.
Post -assessment	Student have the post-test knowledge of this lesson plan. Then, through the method of asking questions, understand the students' grasping of dance flexibility training knowledge.
Summary	The teacher evaluates the achievement of students' learning objectives through the comparison between post-test and pre-test knowledge points, summarizes the content and knowledge points of this course, and predicts

3.3 Data Collection

he stages of data collection were as follows: The samples were pre-test for learning achievement before teaching according to the lesson plans. The samples were taught according to the lesson plans using the BOPPPS teaching method in the classroom and observed dance performance of students. After being taught according to the lesson plans, the samples would be given post-test for learning achievement and dance performance.

The methods of developing the research tools were discussed as follows:

3.3.1 Regarding pre-test and post-test of training philosophy of dance: There were 25 choice questions. There were four options for each choice question, including single and multiple multiple-choice questions. The content included five aspects: flexibility training in dance, c ores trength abilitytraining in dance, speed training in dance, ag ilitytraining in dance, endurance training in dance.

3.3.2 The dance performance evaluation form: It included Body, Action, Time, Space and Energy. The final score was the average of five points for Body, Action, Time, and Space and Energy. The final score was the average of five points for Body, Action, Time, and Space and Energy.

3.4 Data Analysis

Data analysis were: 1) Reliability of the research tools was used by Cronbach reliability, the validity of the research tools was analyzed by three experts of IOC. The value of the reliability of dance performance evaluation form equals 0.949. The contents validity of two research tools IOC=1.00. The data above indicates that the two research tools had high reliability and validity and can be used as research tools. 2) Students' learning achievement score after learning with the BOPPPS teaching method was \overline{X} =86.40, S. D. = 8.95 were higher than before learning with the BOPPPS teaching method was \overline{X} =77.33, S.D.=10.03 at .05 level statistical significant. The average score for the students' dance performance after using the BOPPPS teaching method was \overline{X} =84.27, S. D. = 8.12 which was statistically higher than the criterion of 70% at the .05 level of statistical significance.

4. Research Results

The results were presented according to the research objectives as follows:

4. 1 Results of comparing learning achievement with the BOPPPS teaching method before and after by using t-test for dependent sample.



Table 2 To compared students' learning achievement before and after using BOPPPS teaching method.

Craus	Course		Pre-test		Post-test		
Group	14	\overline{X}	S.D.	\overline{X}	S.D.	T	Р
Experimental group	30	77.33	10.03	86.40	8.95	15.82	.000

P*<0.5

As shown in table 2, after receiving the BOPPPS teaching method, the student got \overline{X} =86.40, S.D.=8.95 (post-test) higher than before, with was \overline{X} =77.33, S.D.=10.03 (pre-test) at .05 level of statistical significance.

4.2 Results of comparing students' dance performance after learning with the BOPPPS teaching method with the established 70% criterion by using t-test for one sample.

Table 3 To compare students' dance performance after learning with the established 70% criterion.

Group	Ν	Full score	Criteria score	X	S.D.	t	р
Experimental group	30	100	70%	84.27	8.12	42.7	.000

P*<0.5

As shown in table 3, after leaning with BOPPPS teaching method, the average score for the students' dance performance was \overline{X} =84.27, S.D.=8.12 which was statistically higher than the criterion of 70% at .05 level of statistical significance.

5. Discussion

The following points based on the research results were discussed:

- 5. 1 The prominent problem in the traditional dance teaching is that teachers are the main body of teaching, and students only complete the learning tasks according to the requirements of teachers. Students are not good at active thinking, let alone actively participating in all aspects of learning, which leads to poor academic performance and lack of expression in dance performance. In terms of sample selection, we choose students with moderate grades and a strong willingness to improve their academic performance. Raw data of the samples were collected through classroom observation, student discussion, and pretest, and the teaching plan was designed based on these data results. This was consistent with the sample selection requirements adopted by Chinese scholars when studying the teaching methods. (Yu Miaomiao, 2011)
- 5.2 The improvement in the samples' academic performance and dance performance ability may be that the initiative of the six steps of the BOPPPS teaching method of the students

had been effectively played. In the bridge-in section, we used many interesting contents and various forms for course import. And students had developed a strong interest in learning about the course content. In the objective / outcome section, set the learning goals that students can achieve, greatly enhanced the students' self-confidence. In the participatory learning section, a favorite part of the students, students could share, show, and discuss, giving full played to their own subjective initiative. Through the pre-test and the post-test, teachers could accurately understand how students completed their course goals, and timely improve the teaching effect. This was consistent with scholars saying that the "BOPPPS" is an "effective", "efficient" and "beneficial" teaching method that can promote students' active participation in classroom learning. (Zhang Jianxun, & Zhulin, 2016)

5.3 The reason for the improvement of students' comprehensive ability may be that the teaching plan emphasizes the cultivation of students' comprehensive ability, and organically combines theoretical learning and practice, especially in dance performance, while paying attention to physical ability performance and paying more attention to the embodiment of artistic connotation, which greatly improves the students' dance performance. Through the experimental group quantifying the teaching effect, digging deep into the data generated, we reflected on the various teaching links, and made the teaching more scientific. This was coincident with scholars who put forward the construction of a "network" core curriculum system thinking. (Ningxing, 2020)

6. Conclusions and Recommendations

- 6.1 Summary of the Study
- 1) The students' post-test average score was $\overline{X}=86.40$, S.D.=8.95. The post-test average score increased was 9.07 higher than pre-test. at .05 level statistical significant. The students' learning achievement after learning with the BOPPPS teaching method was higher than before.
- 2) The average score for the students' dance performance after using the BOPPPS teaching method was \overline{X} =84.27, S.D.=8.12 which was statistically higher than the criterion of 70% at .05 level of statistical significance.
 - 6.2 Implications of the study
- 1) Students can develop dance performance using the learning management using the BOPPPS teaching method.
- 2) Teachers can apply as a guide to develop learners' dance performance using the learning management using the BOPPPS teaching method.
- 3) The BOPPPS teaching method can improve teaching efficiency and respect students' dominant position in learning. It can help realize the student-centered education concept,



stimulate students' interest and promote students' independent learning. Also, it can enhance the cooperative learning between students and effectively improve the learning effect.

6.3 Recommendation

- 1) The BOPPPS teaching method can be widely used in other dance courses. It is suggested that to use BOPPPS teaching method, the bridge-in should be creative, interesting and arouse interest in learning and the objective should be scientific and measured to determine whether students achieve learning goals. In participatory learning, learning tasks should be arranged in advance to let students take the initiative to participate in learning activities and improve learning efficiency. The class must be summarized, timely reflected and the teaching effect can be constantly improved. For the teachers who will use BOPPPS teaching method, the characteristics of the courses taught should be carefully analyzed, the effectiveness of using this method should be evaluated, and how the teaching plan should be designed in accordance with the BOPPPS teaching method.
- 2) The BOPPPS teaching method can be used for the teaching ability training of art teachers. Through BOPPPS teaching method, this method can help teachers to develop more teaching plans in line with students' ability, and master more scientific teaching methods and means, so as to improve the teaching level of teachers.
- 3) The BOPPPS teaching method can be used as a means for students to study by themselves. Through preparation before class, sharing in class and review after class, students not only improve their learning ability, but also develop the learning habit of independent thinking and active participating in learning.

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